Please amend page 20, line 1 as follows:

Claims What is claimed is:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A process for the production of an ¹⁸F-labelled tracer which comprises treatment of a solid support-bound precursor of formula (I):

wherein the TRACER is of formula (A):

$$-R^{1}-CH_{2}$$

$$C$$

$$COP^{1}$$

$$R^{2}-C_{y}H_{z}$$

$$NP^{2}P^{3}$$
(A)

wherein P^1 is hydroxy or a protecting group, P^2 and P^3 are independently hydrogen or a protecting group, R^1 is a bond, -CH=CH-, or together with R^2 forms R^3 ;

$$R^3$$
 is $-(CH)_j-C_mH_n-CH_q$

R² is hydrogen or together with R¹ forms R³;

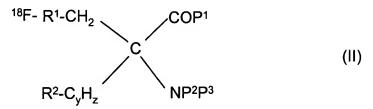
such that

$$-R^3$$
 C COP^1 C_vH_z COP^2

is formed

wherein x is 0 or 1; y is 1 or 2; z is 1, 2, 3, or 4 and z>y if y is 2; q is 1 or 0 if n is 1 and j is 0; n is 1 or 2, but 0 if m is 0; m is 0 or 1; and j is 0 or 1;

with ¹⁸F⁻ to produce the labelled tracer of formula (II)



wherein R^1 , R^2 , y, z, P^1 , P^2 and P^3 are as defined for the compound of formula (I), optionally followed by

- (i) removal of excess ¹⁸F⁻, for example by ion-exchange chromatography; and/or
- (ii) removal of any protecting groups; and/or
- (iii) removal of organic solvent; and/or
- (iv) formulation of the resultant compound of formula (II) as an aqueous solution
- 2. (Original) A process for the production of an 18 F-labelled tracer according to claim 1 wherein R^1 and R^2 form the group R^3 .
- 3. (Currently amended) A process for the production of an 18 F-labelled tracer according to claim 1 or 2 wherein R^1 and R^2 form the group R^3 and x is 0, y is 1, z is 2, q is 1, m is 0 and j is 0.
- 4. (currently amended) A process according to any one of claims 1 to 3 claim 1 for the production of [¹⁸F]-1-amino-3-fluorocyclobutane-1-carboxylic acid ([¹⁸F]-FACBC) which comprises treatment of a solid support-bound precursor of formula (Ia):

wherein P^{2a} and P^{3a} are each independently hydrogen or a protecting group, and P^{1a} is hydroxyl or a carboxylic acid protecting group;

with ¹⁸F to produce the labelled tracer of formula (IIa)

wherein P^{1a} , P^{2a} , and P^{3a} are each as defined in Formula (Ia); optionally followed by

- (i) removal of excess ¹⁸F⁻, for example by ion-exchange chromatography; and/or
- (ii) removal of the protecting groups; and/or
- (iii) removal of organic solvent; and/or
- (iv) formulation of the resultant compound of formula (IIa) as an aqueous solution.
- 5. (Original) A process according to claim 4 wherein the LINKER in the compound of formula (Ia) is

wherein k is an integer of 0 to 3, n is an integer of 1 to 16, and R^L is hydrogen or C_{1-6} alkyl.

6. (Currently amended) A process according to claim 4 or 5 in which P^{1a} is C_{1-6} alkoxy, P^{2a} is hydrogen or C_{1-6} alkoxycarbonyl, and P^{3a} is C_{1-6} alkoxycarbonyl.

- 7. A process for the production of a ¹⁸F-labelled tracer of formula (II) or (IIa), according to any one of claims 1 to 6 claim 1, for use in PET.
- 8. (Original) A compound of formula (I)

wherein the TRACER is of formula (A):

$$-R^1-CH_2$$
 COP^1 (A) $R^2-C_yH_z$ NP^2P^3

wherein P^1 is hydroxy or a protecting group, P^2 and P^3 are independently hydrogen or a protecting group, R^1 is a bond, -CH=CH-, or together with R^2 forms R^3 ;

$$R^3$$
 is -(CH)_j-C_mH_n-CH_q $<$ (CH₂)_x-

R² is hydrogen or together with R¹ forms R³;

such that

$$-R^3$$
 C COP^1 C_yH_z NP^2P^3

is formed

wherein x is 0 or 1; y is 1 or 2; z is 1, 2, 3, or 4 and z>y if y is 2; q is 1 or 0 if n is 1 and j is 0; n is 1 or 2, but 0 if m is 0; m is 0 or 1; and j is 0 or 1.

9. (Original) A compound of formula (Ia):

wherein P^{2a} and P^{3a} are each independently hydrogen or a protecting group, and P^{1a} is hydroxyl or a protecting group.

10. (Currently amended) A compound according to claim 8 or 9 in which the LINKER is

wherein k is an integer of 0 to 3, n is an integer of 1 to 16, and R^L is hydrogen or C_{1-6} alkyl.

- 11. (Currently amended) A compound according to any one of claims 8 to 10 claim 8, in which P^{1a} is C_{1-6} alkoxy, P^{2a} is hydrogen or C_{1-6} alkoxycarbonyl, and P^{3a} is C_{1-6} alkoxycarbonyl.
- 12. (Currently amended) A radiopharmaceutical kit for the preparation of an ¹⁸F-labelled tracer for use in PET, which comprises:
- (i) a vessel containing a compound of formula (I) or (Ia) as defined in any one of claims 1 to 6 claim1; and
- (ii) means for eluting the vessel with a source of ¹⁸F⁻;
- (iii) an ion-exchange cartridge for removal of excess ¹⁸F⁻; and optionally
- (iv) a cartridge for solid-phase deprotection of the resultant product of formula (II) or (IIa) as defined in any one of claims 1 to 6 claim1.

- 13. (Currently amended) A cartridge for a radiopharmaceutical kit for the preparation of an ¹⁸F-labelled tracer for use in PET which comprises:
- (i) a vessel containing a compound of formula (I) or (Ia) as defined in any one of claims

 1 to 6 claim 1; and
- (ii) means for eluting the vessel with a source of ¹⁸F⁻.
- 14. (Currently amended) A method for obtaining a diagnostic PET image which comprises the step of using a radiopharmaceutical kit according to claim 12 or a cartridge for a radiopharmaceutical kit according to claim 13.
- 15. (New) A method for obtaining a diagnostic PET image which comprises the step of using a cartridge for a radiopharmaceutical kit according to claim 13.